

CLAIMS

1. A module (100) for monitoring and optimising a trawl operation where the module (100) is arranged for attachment to a line (420) connected to a trawl bag (410), and where the module (100) at least comprises a power supply unit (320), a plurality of measuring sensors (330), and communication means, characterised in that one or more of the measuring sensors (330) are arranged to be remotely activated by means of control signals.
2. A module (100) according to claim 1, characterised in that the communication means comprise a sonar (340) and a hydrophone (335) connected to a transmitter device (360) and a receiver device (365) respectively, where the receiver device (365) receives control signals that are processed in a control device (370) for activating one or more selected measuring sensors (330).
3. A module (100) according to claim 1, characterised in that the module (100) further comprises a charging unit (310) connected to the power supply unit (320).
4. A module (100) according to claim 1, characterised in that the module (100) is further connected to a trawl door (130), which it controls.
5. A module (100) according to claim 1, characterised in that the sensors (330) are arranged to measure the distance from the module (100) to the trawler (400), the distance between several modules (100), depth, temperature, salt content, light, noise and other parameters that are important for monitoring and optimising the trawl operation.
6. A module (100) according to claim 3, characterised in that the charging unit (310) is connected to a power generator (300) which is set in motion and generates power by being connected to a power-generating movement device.
7. A module (100) according to claim 4, characterised in that the module (100) contains a sensor for measuring the angle of the trawl door (130).

8. A module (100) according to claim 6,
characterised in that the power-generating movement device is a wheel
(110) that can roll along the seabed.
- 5 9. A module (100) according to claim 6,
characterised in that the power-generating movement device is a wheel
(110) on which are mounted vanes (105) which rotate both with and
without seabed contact.
- 10 10. A module (100) according to claim 6,
characterised in that the power-generating movement device is in the
form of a propeller (200).
- 15 11. A method for monitoring and optimising a trawl operation where one or
more trawl bags (410) are dragged behind a trawler (400) via lines (420,
430), and where the method involves use of a module (100) arranged for
attachment to the lines (420, 430), and where the module (100) at least
comprises a power supply unit (320), a plurality of measuring sensors
20 (330) and communication means,
characterised in that the measuring sensors (330) are arranged to be
remotely activated by means of control signals.
- 25 12. A method according to claim 11,
characterised in that the communication means include a sonar (340) and
a hydrophone (335), where the sonar (350) can be used both for
communication and for frightening fish.
- 30 13. A system for monitoring and optimising a trawl operation where one or
more trawl bags (410) are dragged behind a trawler (400) via lines (420,
430), and where the system includes at least two modules (100) which are
attached to the lines (420, 430), and where the modules (100) at least
comprise a power supply unit (320), a plurality of measuring sensors
35 (330) and communication means,
characterised in that the measuring sensors (330) are arranged to be
remotely activated by means of control signals.